

Abstract

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5 Known devices for measuring the mass of a flowing medium with a temperature-dependent measurement element have a tapered measurement conduit with side faces that become steadily thicker opposite from a surface of the measurement element. In the manufacturing of the measurement conduit, due to material accumulations, imprecisions can occur in the embodiment of the side faces, which produces a disadvantageous influence on the measurement result.

10 In order to produce a properly-manufactured housing, the device (1) has a measurement conduit (30) whose faces (37, 38), which extend perpendicular to a surface (24) fixed by the measurement element (21), are inclined and approach each other in the flow direction (43) of the medium in the measurement conduit (30).
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The invention is provided for measuring the mass of a flowing medium, in particular to measure the intake air mass of internal combustion engines.

(Fig. 1)